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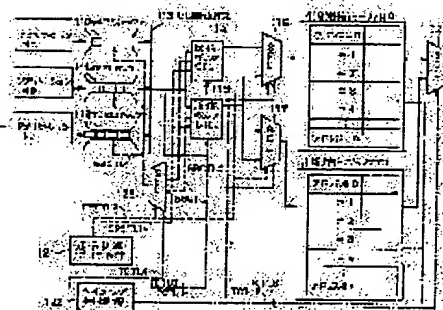
SHIBUYA TOSHIYUKI

(54) ATM CELL TRANSMISSION FLOW CONTROL SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To allow an ATM cell transmission flow control system to transmit cells efficiently within an applied rate not in excess of the applied rate decided between a terminal and a network at setup, to reduce aborted cells in the network and to relieve the increase in re-transmission traffic due to the aborted cells and the load on abort compensation processing.

SOLUTION: A cell buffer (110-112) is provided to each application (APL) that generates ATM cells to store tentatively each cell. A transmission buffer control section 114 or 115 reads the stored cells and writes it to a transmission buffer 118 or 119. In this case, the transmission buffer control section executes negotiation with an exchange at setup from each APL and decides an applied rate based on a channel transmission rate and a throughput discrimination period or the like, and stores the number of cells corresponding to the rate to a prescribed address of the transmission buffer sequentially while reading the number of cells at an equal time interval. The cells are read from the buffer other than the buffer into which the cells are written.



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